COLLABORATE 12
TECHNOLOGY AND APPLICATIONS FORUM
FOR THE ORACLE COMMUNITY
A Technical Roadmap for Oracle Fusion Middleware, E-Business Suite Release 12, and Oracle Fusion Middleware

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John Stouffer

- Connection Point 12.1 Board Member
- OAUG Board Member 2010
- Oracle ACE
- Oracle Databases Version 5+
- Oracle Applications Release 8+
- Specialist in Assessments, Upgrades and Client Advocacy
Agenda

• Fusion Middleware
• Release 12
• Fusion Applications
Audience

- E-Business Release
- Database Version
- Functional / Technical
- Fusion Middleware
The Effect of Fusion

• The next step in Oracle applications and technology
• Focuses on end-to-end Business Processes
  - Order2Cash, Procure2Pay, Hire2Retire
• Provides more cost effective integration, flexible business processes and extensibility
• Fuses processes, people, and products to leverage the best parts of each
• Embraces a service-oriented and standards-based information architecture
Fusion Application Design Principles

**Improving Business Insight**
- Real-time operational analysis to enable taking action
- How? Event Driven Architecture, BI Tools, Dashboards

**Mirroring Adaptive Industry Processes**
- Simpler to integrate and customize to match your business

**Better Ownership Experience**
- Goal: Zero downtime, increased automation
- How? Investment in lifecycle management
Focus on Business Process Management and Improvement

BPM Lifecycle

- Business Process Monitoring (BAM)
  - Monitor
  - Optimize

- Business Process Execution (BPE)
  - Deploy
  - Execute

- Business Process Analysis (BPA)
  - Model
  - Simulate

Various Stakeholders

- Business Analyst
- LOB Process Owner
- Business End User
- Developer
- Process Administrator
- Business Process Architect/Business Engineer
Fusion Middleware is the “Enabler”

• Fusion Effect depends on Fusion Middleware
• Family of 50+ software products
• Leverages the Oracle Application Server 11g
• Software from many Oracle acquisitions
• Built on Industry Standards
Oracle Fusion Middleware
Fusion Components to Know

**Application Integration Architecture**
Reduced TCO through sustainable integrations

**BI Intelligence**
Insight provided within the context of operational systems

**Event Driven Architecture**
Provide real-time feedback on business processing

**Service Oriented Architecture**
Building adaptable application logic

**Master Data Management**
Consolidate and leverage master data

**Identity Management**
Managing Information access and sharing
Business Intelligence Tools

- OBIEE
- BI Publisher
- Discoverer
- Business Activity Monitor (Dashboards)
- Data Warehouse Builder
- Daily Business Intelligence
Event Driven Architecture

- Built into the Fusion Middleware
- Monitors, Analyzes and Responds to Business Events
- Requires minimal coding
- Creating a new User creates a Business Event that triggers emailing them a user guide, or shipping a security token or scheduling training
- EDA is designed to control Workflow
- Works outside the Application Suite
- Leverages Business Activity Monitoring
- Uses Enterprise Messaging (JMS)
- Interoperable with non-Oracle applications
Service Oriented Architecture

• Based on understanding your unique business processes and documenting them with BPA Suite
• Uses building blocks called “Services” or “Web Services”
• A Service is a discrete set of business or technical software functionality
  • Update Customer Address
  • Verify Credit Score
  • Get Manager Approval
• Orchestrated using the Business Process Execution Language (BPEL)
• Relies on Industry Standards (XML, BPEL, SOAP, HTTP, WSDL, WSIF)
• Integrates Legacy systems as well as new business applications into a seamless process
Service Oriented Architecture

- BPA Suite Analyst Tools
- Business Activity Monitoring
  - Events, Monitoring
- Business Intelligence Analytics
- Enterprise Manager Monitoring
- JDeveloper
  - Application Development Framework
  - TopLink
- BPEL Process Manager
  - Native BPEL, Human Workflow, Business Rules
- Enterprise Service Bus
  - Multi-Protocol, XSLT/Transformation, Routing
- Adapters
  - DB’s
- ODI
  - Bulk ETL
- B2B Partners
- SES RFID
- Metadata Repository
- J2EE Application Server
  - JBoss, WebLogic, WebSphere, Oracle AS10g
SOA Provider
Provide Web services

Invoke Service

Process Orchestration
Enterprise Integration
Process Monitoring

ORACLE E-BUSINESS SUITE

Generate
Publish
Deploy
Monitor
Authenticate
Authorize
Oracle E-Business Suite
Business Integration Technologies

- Web Services
  - Integrated SOA Gateway
  - Integration Repository
    - PL/SQL APIs
    - Interface Tables
    - Concurrent Programs
    - Java APIs
    - Interface Views
  - XML Gateway
  - eCommerce Gateway

- Business Event System
- Oracle Workflow

J2EE Application Server (Oracle AS)
## Applications Integration Architecture (AIA)

<table>
<thead>
<tr>
<th>Pre-built SOA Integration Layer for BPEL</th>
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</thead>
<tbody>
<tr>
<td>The Best Practice Processes are represented as abstract models and extensible execution flows</td>
</tr>
<tr>
<td>Enterprise Business Objects provide standard definition of business objects</td>
</tr>
<tr>
<td>Enterprise Business Services provide common service definition</td>
</tr>
<tr>
<td>Best of Breed Application Service Components provide logic and data</td>
</tr>
<tr>
<td>Hubs to Consolidate Key Entities to common definition</td>
</tr>
</tbody>
</table>
Oracle Application Integration Architecture
Pre-built integrations

Oracle Application Integration Architecture

Best Practice Processes
Order to Cash  Procure to Pay  Exit to Hire  Concept to Cash  And much more...

Process Integration Packs
Opportunity to Quote  Order to Cash  Design to Release  Banking  Trade Promotion Mgmt  Comms Order to Bill  More Planned...

Foundation Packs
SOA Reference Architecture & Programming Model
Reference Process Models
Enterprise Business Services
SOA Governance

Industry Leading
ORACLE FUSION MIDDLEWARE
Business Benefits
Oracle E-Business Suite Integrated SOA Gateway

Flexible Integration Architecture
- Provide out-of-box Web services
- Consume Web services
- Complements with AIA
- Path to Fusion

Lower Total Cost Of Ownership
- Maximize investment of existing IT assets
- Leverage interoperability with standards based integration

Gain Visibility Into Integration
- Monitor integration transactions
- Comprehensive details about integration transactions

More Interfaces
- Business Events’ – “Subscription Model”
- Composite services – simplify complexity
- More Services

ORACLE®
Master Data Management

- Consolidate/Federate master information from disparate systems and business lines into one repository
- Cleanse and Enrich data centrally
- Distribute data as a service from a single point of truth to consuming applications, enterprise business processes, and decision support systems
<table>
<thead>
<tr>
<th>Component</th>
<th>Product</th>
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</thead>
<tbody>
<tr>
<td>Web Access</td>
<td>Oracle Access Manager</td>
</tr>
<tr>
<td>Provisioning</td>
<td>Oracle Identity Manager</td>
</tr>
<tr>
<td>Federation</td>
<td>Oracle Identity Federation</td>
</tr>
<tr>
<td>Password Synch</td>
<td>Oracle Identity Manager</td>
</tr>
<tr>
<td>Virtual Directory</td>
<td>Oracle Virtual Directory</td>
</tr>
<tr>
<td>Meta-Directory</td>
<td>Oracle Directory Integration Platform</td>
</tr>
<tr>
<td>Directory</td>
<td>Oracle Internet Directory</td>
</tr>
<tr>
<td>Authentication/PKI</td>
<td>Oracle Certificate Authority</td>
</tr>
<tr>
<td>Web Services</td>
<td>Oracle Web Services Manager</td>
</tr>
<tr>
<td>Enterprise SSO</td>
<td>Oracle Enterprise Single Sign-On Suite</td>
</tr>
</tbody>
</table>
Release 12

- Released January 2007
- Third RUP Level (12.0.3) and above are Federalized
- 12.0.5 released May 19, 2008
  - Only contains Financials and HRMS Release Update Packs
  - Requires other one-offs (see Doc ID 577440.1)
  - RCD available from Doc ID 404152.1
  - Watch Doc IDs 577440.1 and 577406.1 for more updates
- 12.0.6 released November 7, 2008 (Cumulative)
- 12.1 – major enhancements + bug fixes
- 12.1.3 – current release – Release 12.2 is next
- 80% Java Based
- Fusion Middleware Levels
Release 12 Initiatives

Think Globally – Get Global View
- Real-Time Operational Reporting, Global Financial Consolidation

Work Globally – Global Processes
- New User Interface, Financial Shared Services Delivery Model, New Human Resource Localizations

Manage Globally – Reduce Costs
- New Web Services Repository, Maximized use of Fusion Middleware

Extend and Evolve to Next Generation
- Standards Based SOA Technology
Release 11.5.10.2 vs. Release 12

• **Release 11.5.10 – GA November 2004**
  - Eight of 22 Family Packs Needed to be Patched:
    • Financials, HRMS, Projects, Manufacturing, Purchasing/Procurement
  - 60% Forms, 40% Java; Minimal XML
  - Premier Support Ended Nov 2010 – Lifetime Support
  - Must be on 11.5.10.2 (CU2)

• **Release 12 – GA January 2007**
  - RUPs Only – Oracle Release Update Packs 12.1.3 (aka EBS 12.1 RUP 3) Available, Release 12.2 next
  - 80% Java, 20% Forms; Extensive XML
  - Premier Support Ends May 2014 – Lifetime Support
What Will the Biggest Upgrade Challenges For R12.1 Be?

Upgrade Downtime = OS Upgrade/Migration (for many customers) + 64 bit RDBMS Migration (for many customers) + OATM Migration (for some customers) + RDBMS Upgrade + Applications Upgrade

Understanding all the new features

Customizations

Testing All Those Patches – Look at Patch Wizard and Identifying Data Model Changes Between EBS 12.1.3 and Prior EBS Releases and Oracle E-Business Suite Plug-in 4.0 Released for OEM 11g (11.1.0.1)
# Oracle Applications Unlimited

## Lifetime Support Coverage

<table>
<thead>
<tr>
<th>Key Feature</th>
<th>Premier Support</th>
<th>Extended Support</th>
<th>Sustaining Support</th>
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<tbody>
<tr>
<td>Major Product and Technology Releases</td>
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<tr>
<td>Technical Support</td>
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<td>Access to Support Portal</td>
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<tr>
<td>Updates and Fixes</td>
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<tr>
<td>Security Alerts</td>
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<tr>
<td>Critical Patch Updates</td>
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<tr>
<td>Tax, Legal, and Regulatory Updates</td>
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<tr>
<td>Upgrade Scripts</td>
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<tr>
<td>Certification with Existing third-party</td>
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<td>Products/versions</td>
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<td>Certification with most new third-party products/versions</td>
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</tr>
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<td>Certification with most new Oracle products</td>
<td></td>
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</tr>
</tbody>
</table>

From [E-Business Suite Technology Stack Certification Roadmap](https://example.com), Steven Chan, Oracle, Senior Director, Applications Technology Integration
Applications Roadmap Overview

- **EOne 8.12**
  - JD Edwards EnterpriseOne
  - JD Edwards World

- **EOne 9.0**
  - PeopleSoft Enterprise
  - E-Business Suite

- **EOne 9.1**
  - Siebel
  - Fusion Applications

- **World A9.1**

- **World A9.2**

- **9.0**
  - 9.1
  - 9.x

- **R12**
  - R12.1
  - R12.2

- **8.0**
  - 8.1
  - 8.2

- **V1.0**
How Fusion Applications Fit In
The Road to Fusion Roadmap Concepts

- Upgrade to the latest Fusion “Jump-off Point” ASAP
- Upgrade to Oracle 11g ASAP – since R12.2 will require 11.2.0.2, upgrade to the highest certified 11gR2
- Implement Standard NAS/SAN Utilities for Snapshots
- Implement Standard Oracle Utilities
  - Oracle E- Business Suite Plug-in 4.0 for OEM 11g (11.1.0.1)
- Stay Current on Your “Jump-off Point”
- Patches (technology, year-end, Critical Patch Updates)
# The Road to Fusion: Roadmap Concepts

<table>
<thead>
<tr>
<th>Evaluate Your Customizations</th>
<th>Start Leveraging Your Available Fusion Tools</th>
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<tbody>
<tr>
<td>• What customizations do you have?</td>
<td>• XML (BI) Publisher</td>
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<tr>
<td>• Map to Applications functionality</td>
<td>• SOA Suite and WebCenter</td>
</tr>
<tr>
<td>• Decommission where possible</td>
<td>• Business Intelligence</td>
</tr>
<tr>
<td>• Convert to Fusion technology-based where decommission entirely is not possible</td>
<td>• OBIEE or DBI, Discoverer 11g</td>
</tr>
</tbody>
</table>
E-Business Suite Technology Stack Roadmap: What About Fusion?

From E-Business Suite Technology Stack Certification Roadmap, June 3, 2011, Steven Chan, Oracle Corporation
Customers choose whether and when to adopt the Fusion Applications

Complete Choice
Choose Your Next Steps

Continue on Your Current Path
Upgrade to the latest release of your current Oracle Applications

Adopt a Co-Existence Strategy
Add new Fusion Applications modules or pillars to your current Oracle Applications

Embrace the Complete Suite
Deploy the comprehensive suite of Fusion Applications products

From Fusion Applications 11g Overview, Strategy, & Roadmap, Chris Leone, group Vice President, Fusion Product Strategy
How to Get to Fusion?

You won’t find every module currently available in Release 12, but there are more than 100

Fusion Applications 11g
100+ Modules

From Fusion Applications 11g Overview, Strategy, & Roadmap, Chris Leone, group Vice President, Fusion Product Strategy
More Information

Free Download at www.redriversolutions.com
Links

- [http://blogs.oracle.com/chan](http://blogs.oracle.com/chan) – Steven Chan, Director of Applications Technology Integration for Oracle – wonderful articles explaining the nuances of the Applications - THE ORACLE APPLICATIONS BLOG
- [www.oaug.org](http://www.oaug.org) – Oracle Applications User Group
- [http://thedbalife.blogspot.com/](http://thedbalife.blogspot.com/) - James Morrow’s blog
- [http://oracleebizviews.blogspot.com/](http://oracleebizviews.blogspot.com/) - Barbara Matthews’ blog
- [www.integrigy.com](http://www.integrigy.com) – Independent analysis of quarterly CPU/PSU
- [www.justadba.com](http://www.justadba.com) – that’s me!
Questions and Answers

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Thank You!